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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/020,928	12/19/2001	Shigeo Kouzuki	217636US3	9844
22850 7	7590 05/11/2004		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			GRAYBILL, DAVID E	
	XANDRIA, VA 22314		ART UNIT	PAPER NUMBER
			2827	
			DATE MAILED: 05/11/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/020,928	KOUZUKI ET AL.				
Office Action Summary	Examiner	Art Unit				
	David E Graybill	2827				
The MAILING DATE of this communicate Period for Reply	tion appears on the cover sheet wit	h the correspondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) de - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may a relation. ays, a reply within the statutory minimum of thirty ry period will apply and will expire SIX (6) MONT by statute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed of	Responsive to communication(s) filed on <u>26 April 2004</u> .					
•	☐ This action is non-final.					
• • •	·_					
Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1-20 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 20 March 2002 is/are: a) ☐ accepted or b) ☑ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892)		ummary (PTO-413)				
 Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 3-20-2.)/Mail Date`. formal Patent Application (PTO-152) 				

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Figures 2 and 4-10B should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 8 and 15-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 8 and 15 the scope of the term "type" cannot be determined because the common qualities that distinguish the individual members of the class *type* as an identifiable class are not recited in the claims, and they cannot otherwise be determined.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes

that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art and Dudderar (6297551).

At page 1, line 7 to page 5, line 7; page 6, lines 32-34; page 7, lines 2-24; page 7, line 32 to page 8, line 5; page 8, line 24 to page 9, line 2; page 10, lines 20-22; page 10, line 31 to page 12, line 3, applicant admits as prior art all of the limitations of the claims except for the following.

Applicant does not appear to admit as prior art a metal plating layer being formed of a second copper metal and capable of being soldered onto the extraction electrode, and the extraction electrode connects the lead terminal to the first electrode layer via the metal plating layer.

Nonetheless, at column 5, lines 4-47, Dudderar discloses a metal plating layer "coating" being formed of a second copper metal and capable of being soldered onto a copper electrode. Moreover, it would have been obvious to combine this product of Dudderar with the product of the

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admitted prior art because it would enable soldering of the admitted prior art aluminum first electrode layer 97 to the copper extraction electrode 55.

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Also, applicant does not appear to explicitly admit as prior art the process limitations

Also, although applicant does not appear to explicitly admit as prior art the process limitations, "wherein said metal plating layer is selectively formed in a region of said first electrode layer by using said protective film as a mask," and, "wherein said metal plating layer is formed by a wet electroless plating," the product of the admitted prior art inherently possesses any structural characteristics imparted by the process limitation.

See In re Fitzgerald, Sanders, and Bagheri, 205 USPQ 594 (CCPA 1980).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any telephone inquiry of a general nature or relating to the status (MPEP 203.08) of this application or proceeding should be directed to Group 2800 Customer Service whose telephone number is 571-272-2815.

Any telephone inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Graybill at (571) 272-1930. Regular office hours: Monday through Friday, 8:30 a.m. to 6:00 p.m.

The fax phone number for group 2800 is (703) 872-9306.

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David E. Graybill Primary Examiner Page 5

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D.G. 2-May-04